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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,143	02/14/2007	Michael Butters	06275-514US1 101315-1P US	1966
26164 7590 08/08/2008 FISH & RICHARDSON P.C.			EXAMINER	
P.O BOX 102		MURRAY, JEFFREY H		
MINNEAPOL	IS, MN 55440-1022		ART UNIT	PAPER NUMBER
			1624	
			MAIL DATE	DELIVERY MODE
			08/08/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/581,143	BUTTERS ET AL	
Examiner	Art Unit	
JEFFREY H. MURRAY	1624	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS.

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
- after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

earned patent term adjustment. See 37 CFR 1.704(b).				
Status				
1)🛛	1) Responsive to communication(s) filed on 15 May 2008.			
2a) <u></u>	This action is FINAL . 2b)⊠ This action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.			
Disposit	ion of Claims			
4)⊠	Claim(s) <u>1-9</u> is/are pending in the application.			
	4a) Of the above claim(s) is/are withdrawn from consideration.			
5)□	Claim(s) is/are allowed.			

- 6) Claim(s) 1-9 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a)

 All b)

 Some * c)

 None of:
 - Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

See the attached	detailed Office	action for a	a list of tite	certified copi	es not received

Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) A Information Disclosure Statement(s) (PTO/SE/DE) Paper No(s)/Mail Date 5/15/2008	4) Interview Summary (PTO-413) Paper No(s)Mail Date. 5) Notice of Informal Patent Application 6) Other:	

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DETAILED ACTION

Status of Claims

Claims 1-10 were rejected.

 Claims 1-9 are now pending. Claim 10 has been cancelled. This action is in response to the applicants' amendment after a non-final and reply filed on May 15, 2008.

Withdrawn Rejections/Objections

Applicant is notified that any outstanding rejection/objection that is not expressly
maintained in this office action has been withdrawn or rendered moot in view of
applicant's amendments and/or remarks.

Specification

 The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT.
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC.
- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.

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- (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (i) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (I) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

Claim Objections

5. Claim 4 is objected to because of the following informalities: Claim 4 recites the phrase, "...for the preparation of compounds of formula la...". This term is incorrect. A patentee is entitled to a single invention, not multiple inventions in a patent application. Therefore the phrase should be corrected to read, "...for the preparation of a compound of the formula la...". Appropriate correction is required.

Claim Rejections - 35 USC § 112, 1st paragraph

6. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

7. Claims 1-5 are still rejected under 35 U.S.C. 112, first paragraph, for the reasons of record as set forth in the Office Action of November 16, 2007, because the specification, while being enabling for a compound or composition, the specification does not reasonably provide enablement for any solvates of these compounds. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make the invention commensurate in scope with

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these claims. Applicant has stated that the term "or solvate" was removed from claims 1, 6 and 9 however in claim 1, line 2, the term has not been deleted. Appropriate correction is required.

Claim Rejections - 35 USC § 112, 2nd paragraph

8. Claim 1-3 and 5-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

What applicant intends the terms "aryl," and "heteroaryl," to represent in the claims requires clarification since applicants' have provided no definition in the specification and are not limited to mono- or polyfused carbocycles and heterocycles but could include benzo rings fused to heterocyclic rings. Where applicants define terms with a special meaning, they must set out the special definition with "reasonable clarity, deliberateness and precision". Note Teleflex v. Ficosa, 63 USPQ2d 1374; Rexnord Corp v. Laitram Corp. 60 USPQ2d 1851 and MPEP 2111.01. Applicants do not define "aryl" or "heteroaryl" within their specification. Oxygen, nitrogen and/or sulfur may all be in the heteroaromatic ring as well. There are countless ring systems that can be conjured with the open-ended terms as the ones here. One can think of a simple pyrrolidinyl group as well as a pyrazine[2,3-c][1,6]napthyridine ring as fitting the definition of "heteroaryl." Within the specification, "specific operative embodiments or examples of the invention must be set forth. Markush claims must be provided with support in the disclosure for each member of the Markush group. Where the constitution and formula of a chemical compound is stated only as a probability or speculation, the

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disclosure is not sufficient to support claims identifying the compound by such composition or formula." See MPEP 608.01(p).

In the absence of the specific moieties intended to effect modification by
"substitution" or attachment to the chemical core claimed, the term "substituted" renders
the claim in which it appears indefinite in all occurrences wherein applicant fails to
articulate by chemical name, structural formula or sufficiently distinct functional
language, the particular moieties applicant regards as those which will facilitate
substitution, requisite to identifying the composition of matter claimed. Similar to the
argument above, applicants cannot merely state "substituted" without a precise
definition of what is meant by the term. One can envision thousands if not tens of
thousands of different substituents that might fall under the broad term of "substituted.
No new matter permitted. Appropriate correction is required.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior office action.

Conclusion

- Claims 1-9 are rejected.
- Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey H. Murray whose telephone number is 571-272-9023. The examiner can normally be reached on Mon.-Thurs. 7:30-6pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. James O. Wilson can be reached at 571-272-0661. The fax phone Art Unit: 1624

number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jeffrey H Murray/ Patent Examiner Art Unit 1624 /James O. Wilson/ Supervisory Patent Examiner, Art Unit 1624